

RAID Recovery – Workflow

1. Collect all information available
2. Use Disk Management for
 - RAID level
 - first disk ideas
3. Content analysis
 - zeros - remove blank disks
 - averages - disks from the same RAID
 - mirror pairs

Check: RAID1, RAID10, JBOD

- parity analysis

4. Entropy analysis

Check: RAID0, RAID5, RAID6

When RAID analysis are done

You should get

- RAID level
- block size for a parity-based RAID
- mirror pairs for RAID10
- hotspare involved or not
- full RAID or disk missing

$$A \text{ XOR } B \text{ XOR } P = 0$$

Choose the RAID recovery mode

- manual – if all parameters are known
- automatic (recommended) – specify all you know

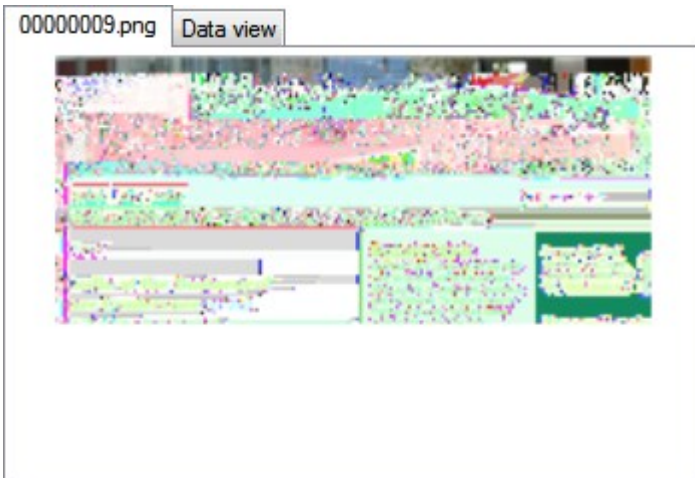
Estimate the result

What to check

- enough files
- large files (>10MB)
- image (.jpg) files

RAID recovery failed:

- large image files are “striped”



Filesystem recovery failed:

- large files are OK, but something is still wrong